

Tiaozhao Bu

List of Publications by Year in descending order

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34
papers

1,879
citations

279798

23
h-index

361022

35
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36
all docs

36
docs citations

36
times ranked

1621
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the effect of nanoscale triboelectrification on nanofriction in insulators. Nano Energy, 2022, 91, 106620.	16.0	7
2	Raindrop energy-powered autonomous wireless hyetometer based on liquidâ€“solid contact electrification. Microsystems and Nanoengineering, 2022, 8, 30.	7.0	33
3	An ultraweak mechanical stimuli actuated single electrode triboelectric nanogenerator with high energy conversion efficiency. Nanoscale, 2022, 14, 7906-7912.	5.6	3
4	Friction-Dominated Carrier Excitation and Transport Mechanism for GaN-Based Direct-Current Triboelectric Nanogenerators. ACS Applied Materials & Interfaces, 2022, 14, 24020-24027.	8.0	33
5	Ferromagneticâ€“Based Chargeâ€“Accumulation Triboelectric Nanogenerator With Ultrahigh Surface Charge Density. Small, 2022, 18, .	10.0	11
6	Comparison of applied torque and energy conversion efficiency between rotational triboelectric nanogenerator and electromagnetic generator. IScience, 2021, 24, 102318.	4.1	32
7	Frequency Band Characteristics of a Triboelectric Nanogenerator and Ultra-Wide-Band Vibrational Energy Harvesting. ACS Applied Materials & Interfaces, 2021, 13, 26084-26092.	8.0	53
8	Effects of interfacial acidâ€“base on the performance of contactâ€“separation mode triboelectric nanogenerator. Materials Today Energy, 2021, 20, 100686.	4.7	8
9	Self-powered artificial joint wear debris sensor based on triboelectric nanogenerator. Nano Energy, 2021, 85, 105967.	16.0	21
10	<sc>Oneâ€“stop</sc> fabrication of triboelectric nanogenerator based on <sc>3D</sc> printing. EcoMat, 2021, 3, e12130.	11.9	23
11	Multidimensional Force Sensors Based on Triboelectric Nanogenerators for Electronic Skin. ACS Applied Materials & Interfaces, 2021, 13, 56320-56328.	8.0	30
12	A Leaf-Shaped Triboelectric Nanogenerator for Multiple Ambient Mechanical Energy Harvesting. IEEE Transactions on Power Electronics, 2020, 35, 25-32.	7.9	36
13	Overview of Power Management for Triboelectric Nanogenerators. Advanced Intelligent Systems, 2020, 2, 1900129.	6.1	40
14	Overview of micro/nano-wind energy harvesters and sensors. Nanoscale, 2020, 12, 23929-23944.	5.6	38
15	Network Topology Optimization of Triboelectric Nanogenerators for Effectively Harvesting Ocean Wave Energy. IScience, 2020, 23, 101848.	4.1	29
16	Highâ€“Resolution Monolithic Integrated Tribotronic InGaZnO Thinâ€“Film Transistor Array for Tactile Detection. Advanced Functional Materials, 2020, 30, 2002613.	14.9	30
17	Nanoscale triboelectrification gated transistor. Nature Communications, 2020, 11, 1054.	12.8	15
18	Tribovoltaic Effect on Metalâ€“Semiconductor Interface for Directâ€“Current Lowâ€“Impedance Triboelectric Nanogenerators. Advanced Energy Materials, 2020, 10, 1903713.	19.5	115

#	ARTICLE	IF	CITATIONS
19	Intrinsically Stretchable Organic-Tribotronic-Transistor for Tactile Sensing. Research, 2020, 2020, 1398903.	5.7	30
20	Triboelectric Effect-Driven Liquid Metal Actuators. Soft Robotics, 2019, 6, 664-670.	8.0	18
21	Torus structured triboelectric nanogenerator array for water wave energy harvesting. Nano Energy, 2019, 58, 499-507.	16.0	109
22	Triboelectric micromotors actuated by ultralow frequency mechanical stimuli. Nature Communications, 2019, 10, 2309.	12.8	112
23	Remarkable merits of triboelectric nanogenerator than electromagnetic generator for harvesting small-amplitude mechanical energy. Nano Energy, 2019, 61, 111-118.	16.0	144
24	Tribotronics for Active Mechanosensation and Self-Powered Microsystems. Advanced Functional Materials, 2019, 29, 1808114.	14.9	35
25	Self-Powered Electrostatic Adsorption Face Mask Based on a Triboelectric Nanogenerator. ACS Applied Materials & Interfaces, 2018, 10, 7126-7133.	8.0	157
26	Flexure hinges based triboelectric nanogenerator by 3D printing. Extreme Mechanics Letters, 2018, 20, 38-45.	4.1	31
27	Stretchable Triboelectric-Photonic Smart Skin for Tactile and Gesture Sensing. Advanced Materials, 2018, 30, e1800066.	21.0	205
28	Compressible hexagonal-structured triboelectric nanogenerators for harvesting tire rotation energy. Extreme Mechanics Letters, 2018, 18, 1-8.	4.1	96
29	Tribotronic bipolar junction transistor for mechanical frequency monitoring and use as touch switch. Microsystems and Nanoengineering, 2018, 4, 25.	7.0	16
30	Liquid Metal Gated Tribotronic Transistors as an Electronic Gradiometer for Angle Measurement. Advanced Electronic Materials, 2018, 4, 1800269.	5.1	14
31	Self-Powered Hall Vehicle Sensors Based on Triboelectric Nanogenerators. Advanced Materials Technologies, 2018, 3, 1800140.	5.8	32
32	Ultrahigh charge density realized by charge pumping at ambient conditions for triboelectric nanogenerators. Nano Energy, 2018, 49, 625-633.	16.0	261
33	Soft Tubular Triboelectric Nanogenerator for Biomechanical Energy Harvesting. Advanced Sustainable Systems, 2018, 2, 1800081.	5.3	30
34	Embedded Triboelectric Active Sensors for Real-Time Pneumatic Monitoring. ACS Applied Materials & Interfaces, 2017, 9, 32352-32358.	8.0	22